

COMPLETE LISTING OF CLAIMS
IN ASCENDING ORDER WITH STATUS INDICATOR

Claim 1-4 (canceled)

Claim 5 (previously presented): A sound signal analyzing device as recited in claim 22 wherein said setting section includes an operator operable by a user, and said setting section, in response to operation of the operator by the user, confirms the volume level of the sound signal displayed by said display section and thereby sets the threshold value.

Claims 6-21 (canceled)

Claim 22 (previously presented): A sound signal analyzing device comprising:
an input section that receives sound signals to be analyzed;
a characteristic extraction section that extracts a volume level of a sound signal as it is received by said input section;
a setting section that sets various parameters for use in subsequent analysis of sound signals received by said input section in accordance with the volume level of the sound signal extracted by said characteristic extraction section, including at least a threshold value; and
a display section that visually displays a current value of the volume level and the threshold value determined by an extracted value of the volume level in accordance with a predetermined criterion.

Claim 23 (previously presented): A sound signal analyzing device comprising:

- an input section that receives sound signals to be analyzed;
- a characteristic extraction section that extracts a pitch of a sound signal as it is received by said input section;
- a designating section that, based on the pitch of the sound signal, designates at least one of an upper and lower pitch limit as a pitch limit characteristic;
- a setting section that sets various parameters for use in subsequent analysis of sound signals received by said input section in accordance with the pitch limit characteristic, including at least a filter characteristic; and
- a display section that visually displays the pitch limit characteristic by displaying an image indicative of at least one of the upper and lower pitch limits,

wherein a user can vary the pitch limit characteristic by manipulating the image such that the setting section sets the various parameters in accordance with the varied pitch limit characteristic.

Claim 24 (previously presented): A sound signal analyzing method comprising the steps of:

- receiving sound signals to be analyzed;
- extracting a volume level of the sound signal as it is received by said step of receiving;
- setting various parameters for use in subsequent analysis of sound signals received by said step of receiving in accordance with the volume level of the sound signal extracted by said step of extracting, including at least a threshold value; and
- displaying a current value of the volume level and the threshold value determined by an extracted value of the volume level in accordance with a predetermined criterion.

Claim 25 (previously presented): A sound signal analyzing method comprising the steps of:

receiving sound signals to be analyzed;

extracting a pitch of a sound signal as it is received by said step of receiving;

designating, based on the pitch of the sound signal, at least one of an upper and lower pitch limit as a pitch limit characteristic;

setting various parameters for use in subsequent analysis of sound signals received by said step of receiving in accordance with the pitch limit characteristic, including at least a filter characteristic; and

displaying the pitch limit characteristic by displaying an image indicative of at least one of the upper and lower pitch limits,

wherein a user can vary the pitch limit characteristic by manipulating the image to set the various parameters in accordance with the varied pitch limit characteristic.

Claim 26 (previously presented): A machine-readable medium containing a group of instructions of a sound signal analyzing program for execution by a computer, said sound signal analyzing program causing the computer to execute the steps of:

receiving sound signals to be analyzed;

extracting a volume level of a sound signal as it is received by said step of receiving;

setting various parameters for use in subsequent analysis of sound signals received by said step of receiving in accordance with the volume level of the sound signal extracted by said step of extracting, including at least a threshold value; and

displaying a current value of the volume level and the threshold value determined by an extracted value of the volume level in accordance with a predetermined criterion.

Claim 27 (previously presented): A machine-readable medium containing a group of instructions of a sound signal analyzing program for execution by a computer, said sound signal analyzing program causing the computer to execute the steps of:

receiving sound signals to be analyzed;

extracting a pitch of the sound signal as it is received by said step of receiving;

designating, based on the pitch of the sound signal, at least one of an upper and lower pitch limit as a pitch limit characteristic;

setting various parameters for use in subsequent analysis of sound signals received by said step of receiving in accordance with the pitch limit characteristic, including at least a filter characteristic; and

displaying the pitch limit characteristic by displaying an image indicative of at least one of the upper and lower pitch limits,

wherein a user vary the pitch limit characteristic by manipulating the image to set the various parameters in accordance with the varied pitch limit characteristic.

Claim 28 (canceled)

Claim 29 (new): A sound signal analyzing device comprising:

an input section that receives sound signals to be analyzed;

a characteristic extraction section that extracts a characteristic of a sound signal as it is received by said input section;

a setting section that sets at least one parameter for use in subsequent analysis of sound signals received by said input section in accordance with the extracted characteristic of the sound signal;

a detection section for detecting a pitch of a subsequent sound signal in accordance with the at least one parameter;

an allocation section for allocating the detected pitch to a predetermined scale note; and

a musical notation section for providing musical notation in accordance with the allocated pitch.

Claim 30 (new): The sound signal analyzing device of claim 29 wherein said characteristic is a volume level of the sound signal and wherein said at least one parameter is a threshold value.

Claim 31 (new): The sound signal analyzing device of claim 29 wherein said characteristic is at least one of an upper and lower pitch limit of the sound signal and wherein said at least one parameter is a filter characteristic.

Claim 32 (new): A sound signal analyzing method comprising:
receiving sound signals to be analyzed;
extracting a characteristic of a sound signal as it is received;
setting at least one parameter for use in subsequent analysis of sound signals received in accordance with the extracted characteristic of the sound signal;
detecting a pitch of a subsequent sound signal in accordance with the at least one parameter;
allocating the detected pitch to a predetermined scale note; and
providing musical notation in accordance with the allocated pitch.

Claim 33 (new): A machine-readable medium containing a group of instructions of a sound signal analyzing program for execution by a computer, said sound signal analyzing program comprising comprising:
receiving sound signals to be analyzed;
extracting a characteristic of a sound signal as it is received;
setting at least one parameter for use in subsequent analysis of sound signals received in accordance with the extracted characteristic of the sound signal;
detecting a pitch of a subsequent sound signal in accordance with the at least one parameter;
allocating the detected pitch to a predetermined scale note; and
providing musical notation in accordance with the allocated pitch.